

Application No. 10/779,706

Amendments to the Claims:

The following listing of claims will replace all prior versions, and listings, of claims in the application:

1. (Previously Presented) An image processing device for performing image processing on image data, the image processing device comprising:

a statistical value calculating device that performs statistical processing on the image data to generate statistical value data representing statistical values;

a scene detecting device that detects whether a change occurs in a scene based on the image data;

a correction parameter calculating device that weights the statistical value data of a plurality of frames in accordance with the detection result by the scene detecting device to calculate a correction parameter; and

an image correcting device that performs image correction processing on the image data based on the correction parameter;

wherein, when it is detected that no change occurs in the scene, the correction parameter calculating device calculate a correction parameter $P(n)$ of a current frame in accordance with the equations: $P(n) = A * S(n) + B * P(n-1)$ and $1 = A + B$, where $S(n)$ is statistical value data of a current frame, $P(n-1)$ is a correction parameter of a frame prior to the current frame by one frame, A is a first coefficient, and B is a second coefficient.

2. (Original) The image processing device according to Claim 1, wherein, when it is detected by the scene detecting device that a change occurs in the scene, the correction parameter calculating device generates a correction parameter by performing calculations in which the weighting on statistical value data of a previous frame is smaller than in a case where no change occurs in the scene.

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3. (Original) The image processing device according to Claim 1, wherein, when it is detected by the scene detecting device that no change occurs in the scene, the correction parameter calculating device calculates an average of statistical value data of the plurality of frames to generate the correction parameter.

4. (Original) The image processing device according to Claim 3, wherein, when it is detected by the scene detecting device that a change occurs in the scene, the correction parameter calculating device generates statistical value data of the current frame as the correction parameter.

5. (Canceled)

6. (Previously Presented) The image processing device according to Claim 1, wherein, when it is detected by the scene detecting device that a change occurs in the scene, the correction parameter calculating device makes A equal to 1 and B equal to 0.

7. (Original) The image processing device according to Claim 1, the correction parameter calculating device detecting a frame rate of the image data and weighting the statistical value data of the plurality of frames based on the detected frame rate and the detection result by the scene detecting device to calculate a correction parameter.

8. (Previously Presented) An image processing method of performing image processing on image data, the method comprising:

performing statistical processing on the image data to generate statistical value data representing statistical values;

detecting whether a change occurs in a scene based on the image data;

calculating a correction parameter by weighting the statistical value data of a plurality of frames in accordance with the result of detecting scenes;

performing image correction processing on the image data based on the correction parameter; and

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when it is detected that no change occurs in the scene, calculating $P(n)$ of a current frame in accordance with the equations: $P(n) = A * S(n) + B * P(n-1)$ and $1 = A + B$, where $S(n)$ is statistical value data of the current frame, $P(n-1)$ is a correction parameter of a frame prior to the current frame by one frame, A is a first coefficient, and B is a second coefficient.

9. (Original) The image processing method according to Claim 8, calculating the correction parameter further comprising, when it is detected that a change occurs in the scene, generating the correction parameter by performing calculations in which the weighting on statistical value data of a previous frame is smaller than in a case where no change occurs in the scene.

10. (Canceled)